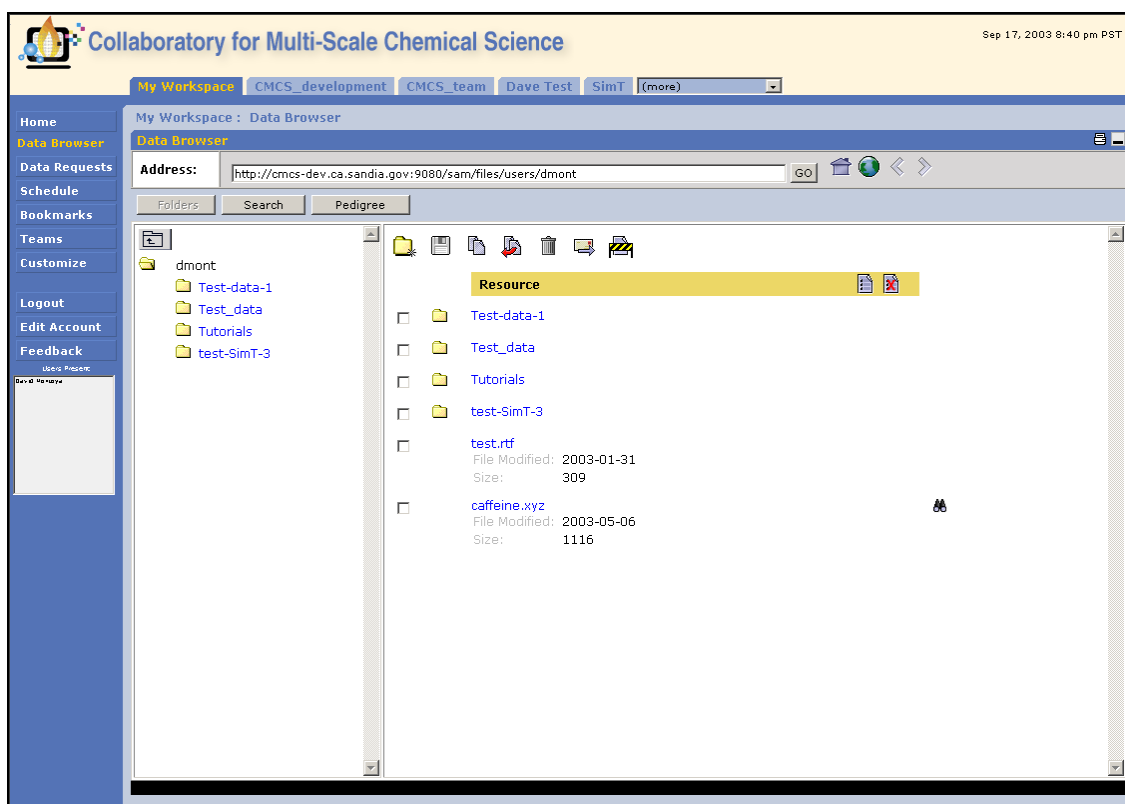


3.0 CMCS Data Management

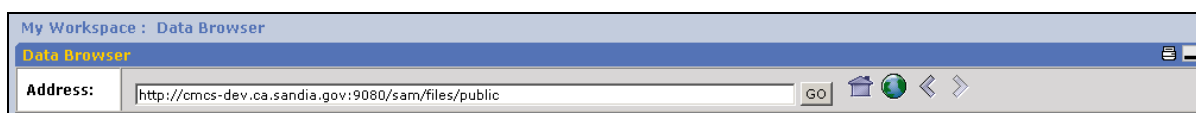
One of the cornerstone tools included with each Workspace is the data management tool or Data Browser. This is a powerful application that provides the capability to create folders, store and retrieve data files, generate and manage pedigree for the data and provide viewing and translation capabilities to files based on SAM (Scientific Annotation Middleware). The Data Browser gives the user a tool that can access content stored on DAV data servers.


The following tutorial will focus on the core data management components of the Data Browser. These include folder creation, uploading files, downloading files, copying, moving, deletion, editing permissions, and subscription services. In subsequent tutorials, pedigree, search and data translation will be discussed.



General description



The *Address* bar of the Data Browser shows the path for the current data directory on the DAV data server.



Other directory locations (DAV URL paths) may be entered. The world icon  on the right side of the *Address* bar will bring up the site public data area that all users can access.

The left side of the Data Browser shows the folders in the current folder  and is used to navigate up and down the folder hierarchy. Selecting the  icon in the upper left corner of this area will move up to the next folder level. Selecting a folder name will open that folder.

The right side of the Data Browser shows the contents of the current folder and data function icons that allow data to be managed. The icons are shown below and described in the following sections.



Move up one folder level



Create new folder on DAV data server



Upload file from local machine to DAV data server



Copy file or folder to specified location on DAV data server



Move file or folder from current location to specified location on DAV data server



Delete file from DAV data server



Edit permissions



Manage subscriptions

Other notable options

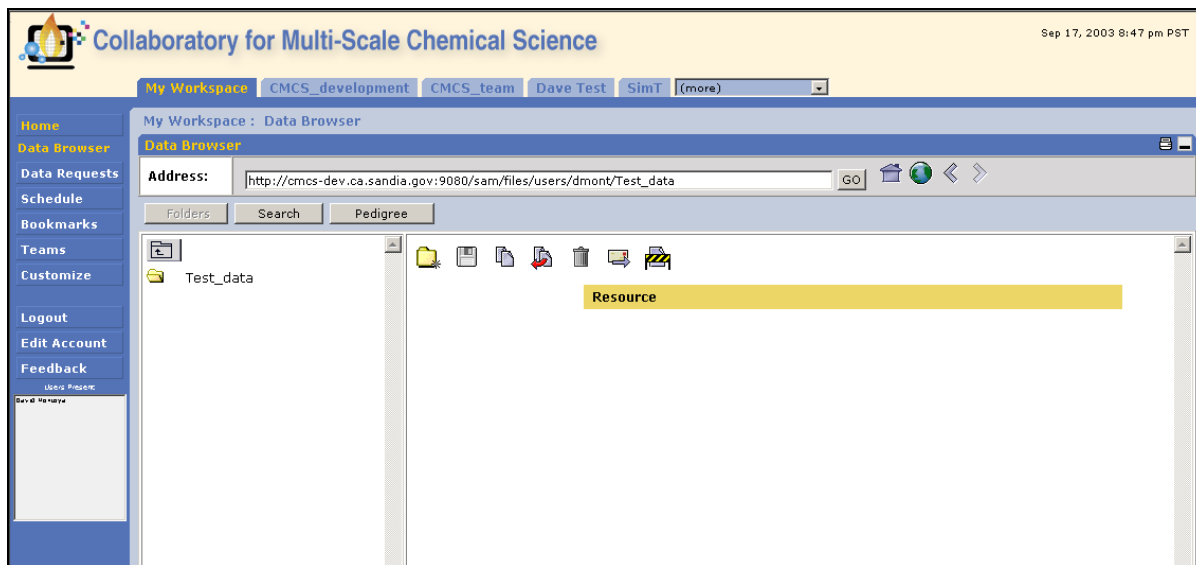


Select all - selects all the folders and files under the current folder





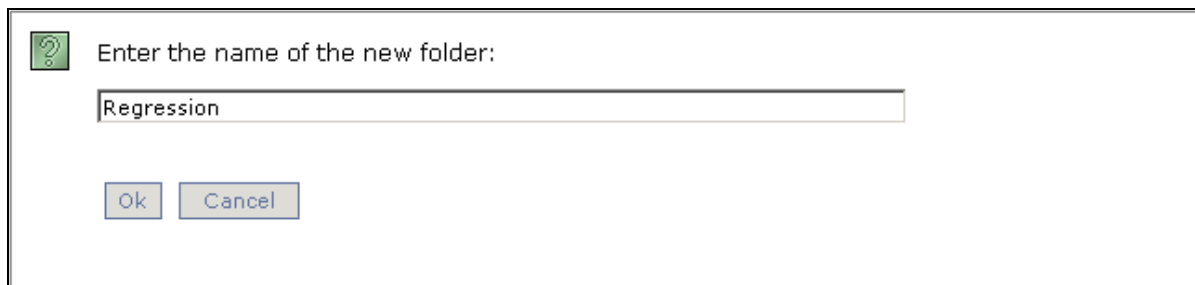
Select none - de-selects all the folders and file under the current folder

Folder Creation

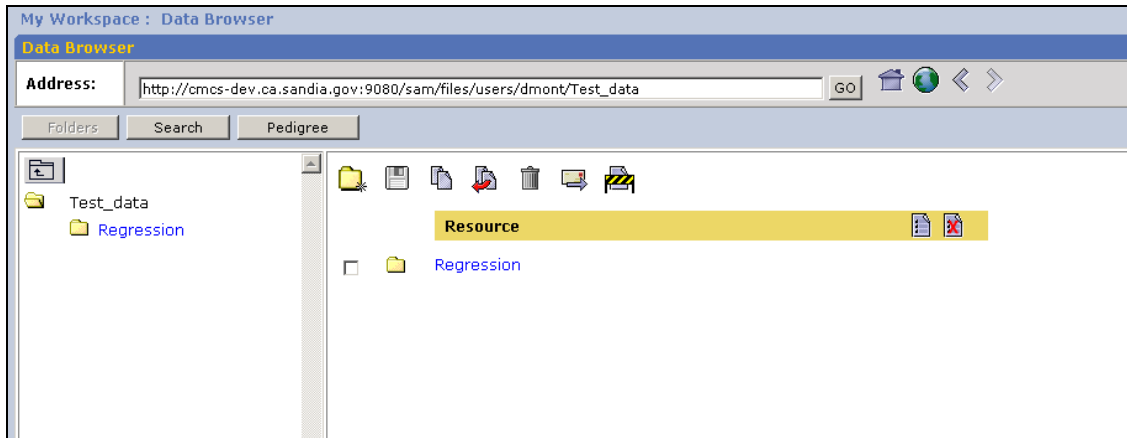


Adding Folders



Folders will be created in the folder with the open folder icon  next to its name (*dmont*). Before creating a new folder, open the desired parent folder by clicking on its name then click on the new folder icon .

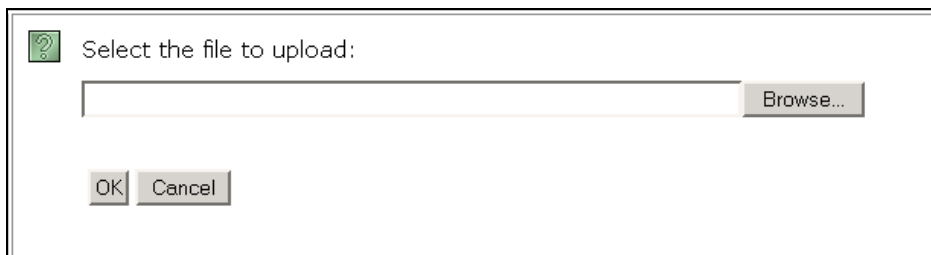


Enter the name of the new folder (*regression*) then click on **OK** to create a new folder (*regression*) under the current open folder (*dmont/test-data*).

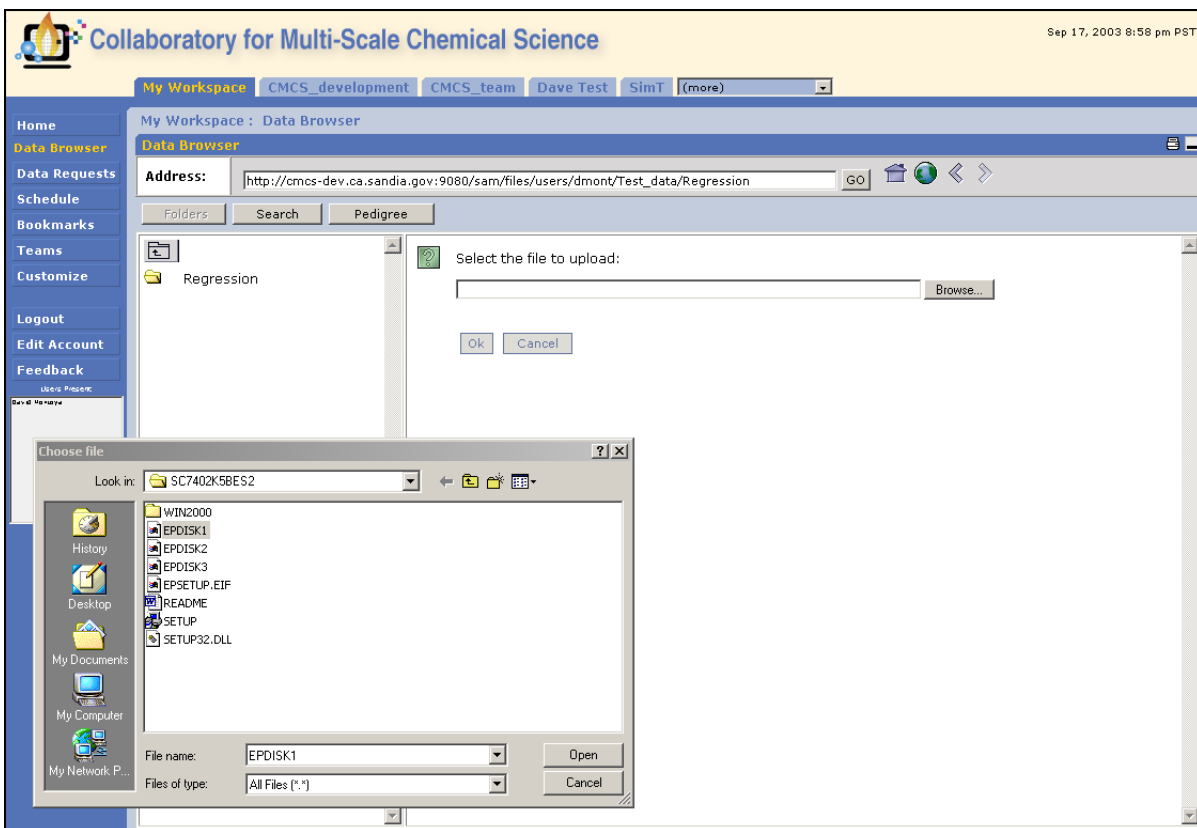


Uploading files

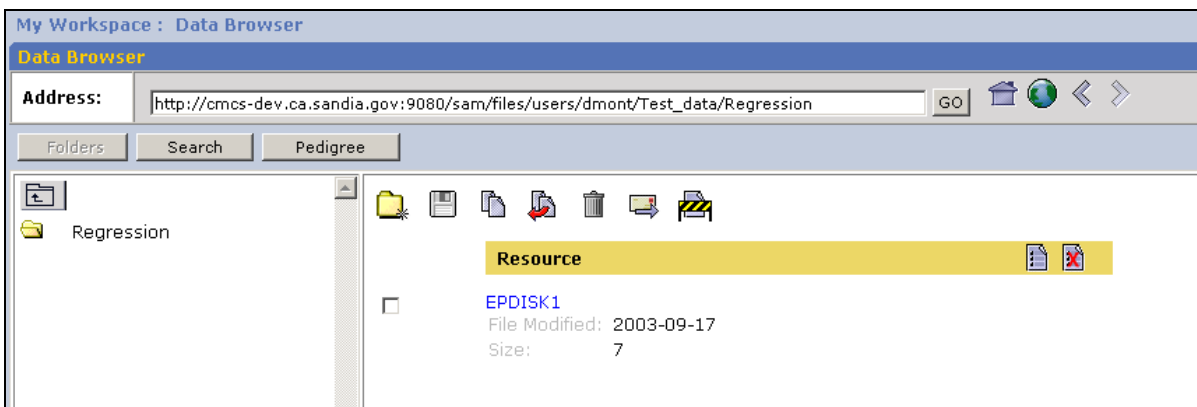
Files will be uploaded to the folder that has the open folder icon  displayed to the left of its name. In the case above, the open folder icon in the left pane is next to the folder *test-data*. To upload a file to a different folder, open the desired destination folder by clicking on its name. To upload a file to the **regression** folder, click on **regression** to open the folder then click on the upload icon  and the following screen will appear.



Click on **Browse...** and a file upload screen similar to the one shown below will appear. Select the file to be uploaded on your local computer and then select **Open** to upload the file (general-dkspc.doc) to the selected folder (**test-data**).

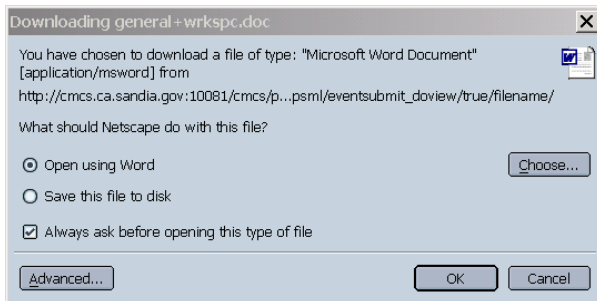


The uploaded file (EPDISK1) will appear in the contents of the currently open folder (**regression**) after the upload.



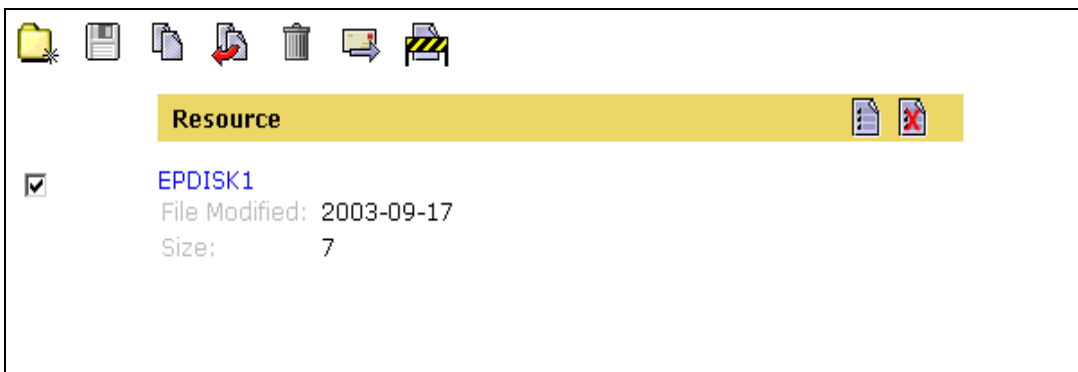
Downloading files



Downloading a file is a simpler task. Click on the file name and a screen similar to the one below will appear. Because of the many types of computers and operating systems the screen that appears may be slightly different. Select the appropriate option and location for downloading the file.

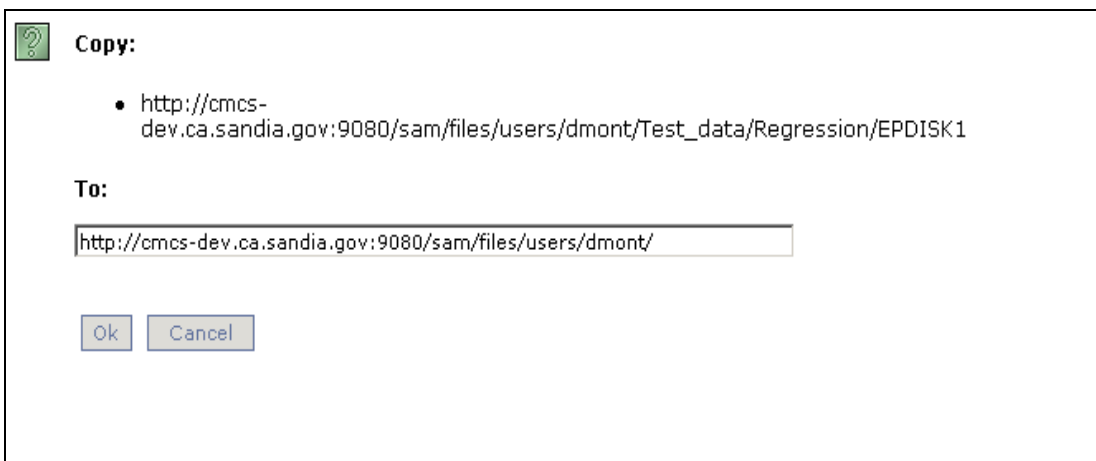


Copying and Moving files and folders

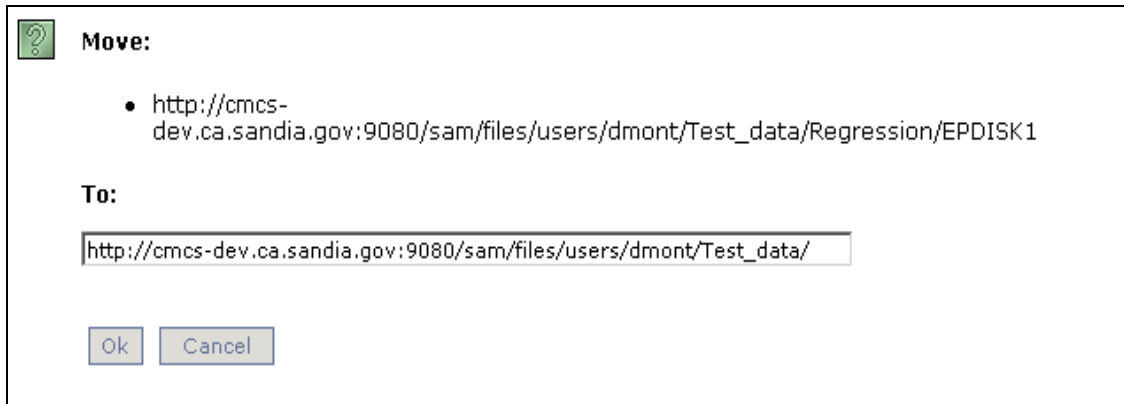
Files and folders may be copied and moved to other locations on the DAV data server. Copying and moving files (or folders) work in a similar manner. Select the file or folder to be copied or moved by clicking in the box to the left of the file or folder name. Multiple files (or folders) can be selected.



The next step is to select either the Copy () or Move () operation icon. The copy operation brings up the following screen.



Specify the address of the destination folder and click **OK**. The file will be copied to the target folder. The screen below shows that Move works in a similar manner.



A dialog box titled "Move:" with a question mark icon. It contains a list of source paths, a "To:" label, a text input field for the destination path, and "Ok" and "Cancel" buttons.

Move:


- `http://cmcs-dev.ca.sandia.gov:9080/sam/files/users/dmont/Test_data/Regression/EPDISK1`

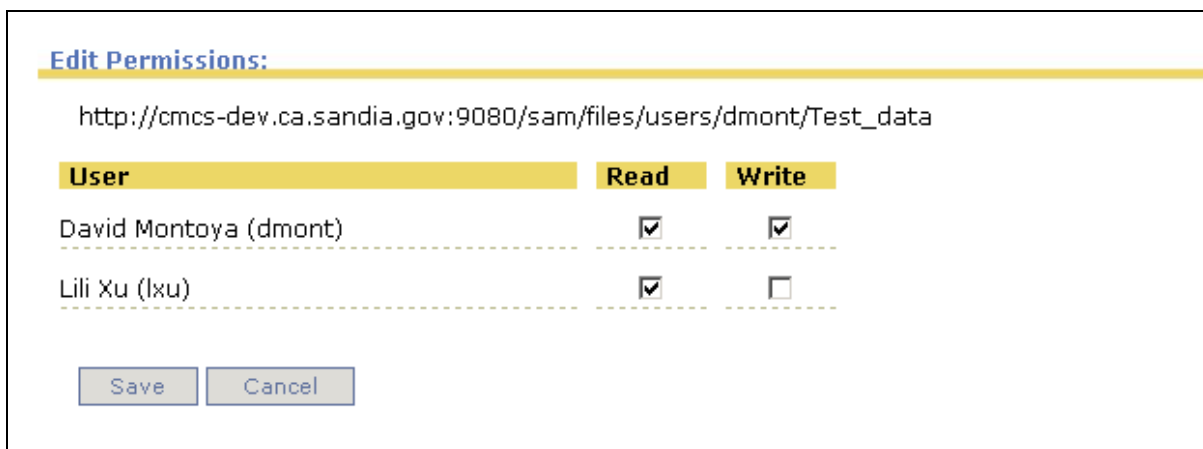
To:

`http://cmcs-dev.ca.sandia.gov:9080/sam/files/users/dmont/Test_data/`

Ok Cancel

Permissions

Permissions allow a finer level of access control to be placed on folders or files. Only administrators or a team are allowed this option. At a folder level the following page is displayed when the Permissions icon  is selected.




A dialog box titled "Edit Permissions:" with a yellow header bar. It displays a path, a table of permissions for two users, and "Save" and "Cancel" buttons.

Edit Permissions:


`http://cmcs-dev.ca.sandia.gov:9080/sam/files/users/dmont/Test_data`

User	Read	Write
David Montoya (dmont)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lili Xu (lxu)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Save Cancel

It will display all the members of the team and allow modification at the member level. A similar display is provided when a file(s) have been selected and the icon  selected. This however changes the access control only for the files selected.

Subscriptions

Subscriptions provide the capability for team members to be notified via email when certain actions occur within identified folders or files. The following page will be displayed when the Subscriptions icon  is selected.

Current Subscriptions:

- Regression subscription
- Dave_Test

Current Subscriptions shows all subscriptions for which the user has created and is a recipient. Subscriptions created by the user are always listed [- *Subscriptions for David Montoya*]. When we select a different Team tab such as *CMCS_development*, and select Subscriptions, specific subscriptions for the team are displayed as well as all Subscriptions that belong to the user. Regarding [- *Subscriptions for CMCS_development*]. In this case, [three subscriptions] have been created which send notifications based on what has been defined in those project environments.

Under CMCS_development team

Current Subscriptions:

Subscriptions for CMCS_development

- retesting folders with spaces (any change daily)
- jmol_samples team test
- retesting folders with spaces (View immediate)

Subscriptions for David Montoya

- Regression subscription
- Dave_Test

The details of these subscriptions can be edited by clicking on the name of the subscription. Select **New** to create a new subscription.

Edit Subscription:

Title: Regression subscription

URL Context: /files/users/dmont/Test_data/Regression

☒ Include all child resources (applies to folders only).

Events of Interest: Any Change
File Viewed or Retrieved

Period: Daily

Recipient: David Montoya

Advanced

Save Delete Cancel

The example shows how to create a subscription that will generate daily notifications of any additions or changes within the **Regression** folder. The following information needs to be supplied:

Title – the name associated with the subscription (which can be changed)

URL Context – the folder or file to be watched

Include child resources – check if sub-folders and files are to be included

Events of interest – the action that notification is based on

Period – the frequency of notification

Recipient – the user(s) who will receive the notification. In most cases, this should be yourself. Recipients can only be specified by the user who creates the subscription so care must be taken to not select others that are not interested in the notification.

There is a team selection as well as a detailed listing of each member of the team for more fine grained selections.

The Advanced link can be used to specify further information. For more information, refer to the CMCS Notifications tutorial.